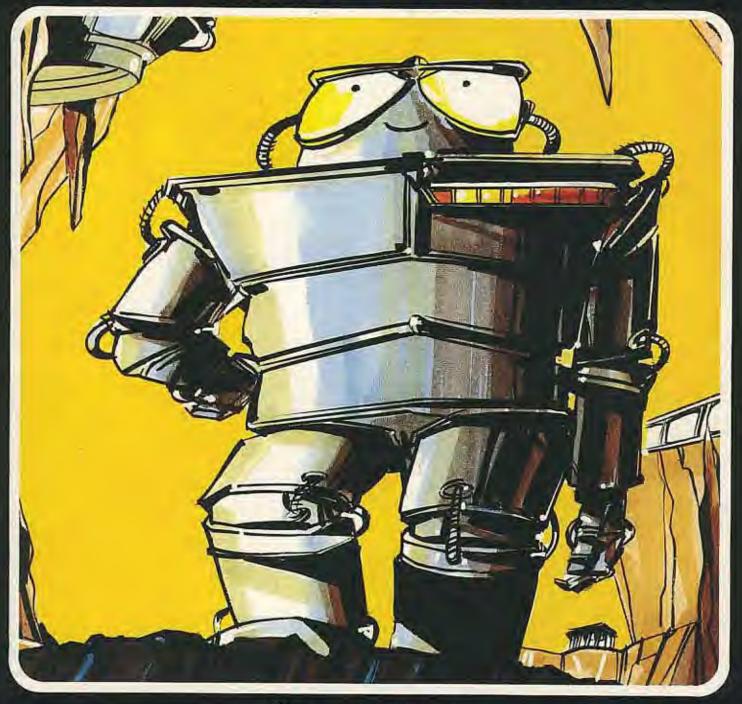
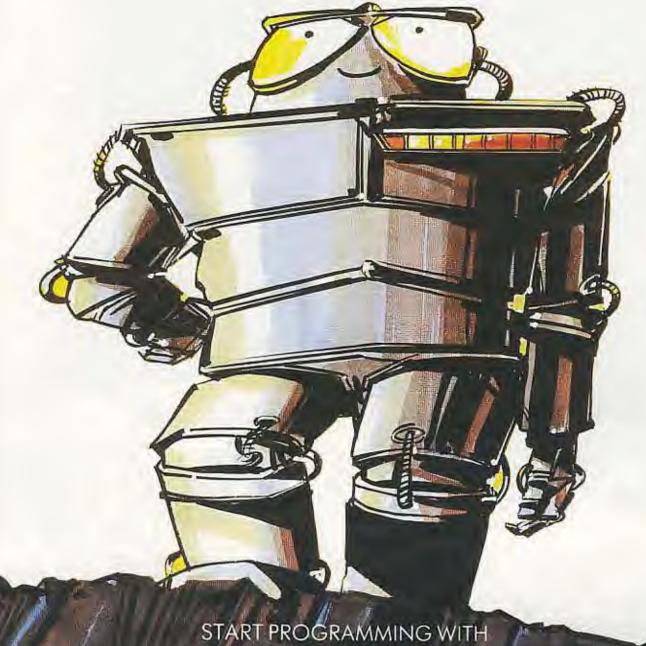
START PROGRAMMING WITH

GORTEK AND THE MICROCHIPS



Cacommodore

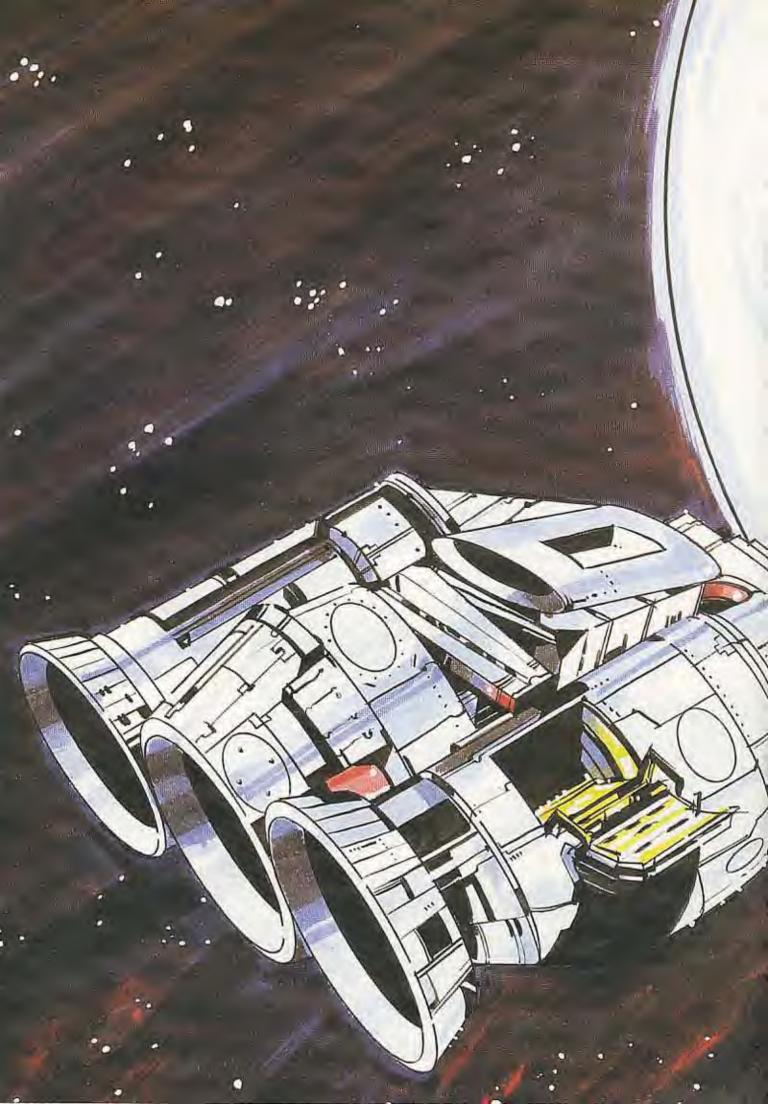




HEATHER SCOTT

STUART ALEXANDER

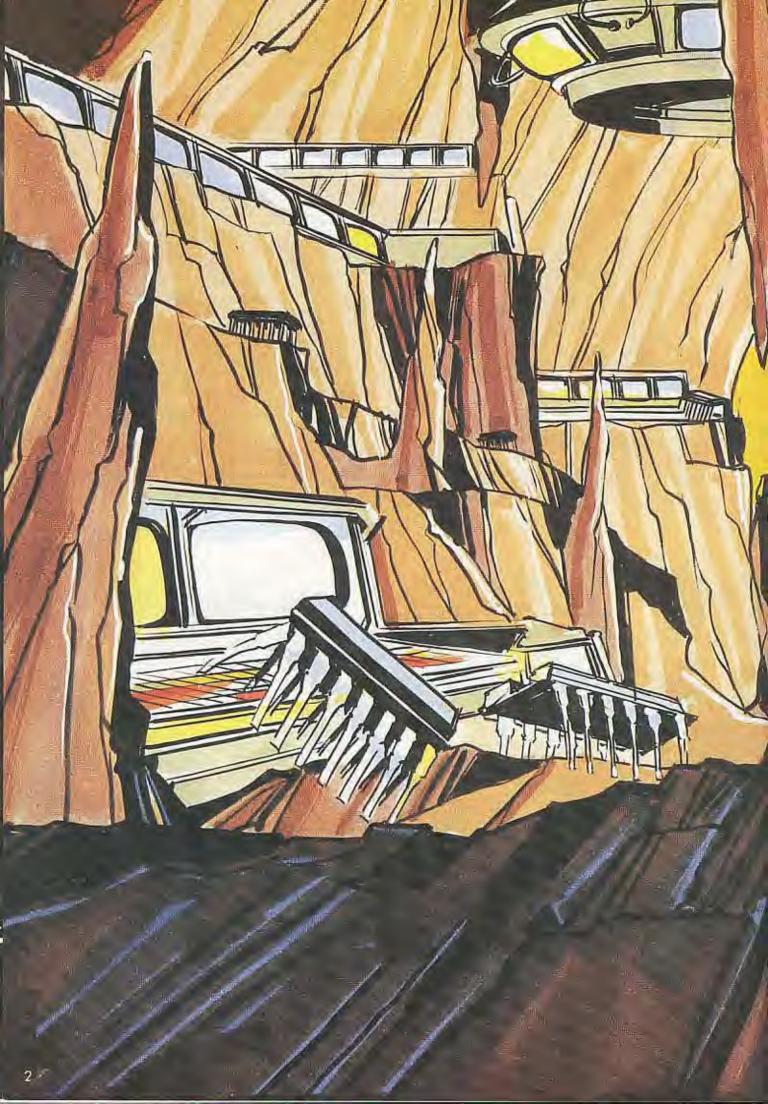
GARY BOWIE

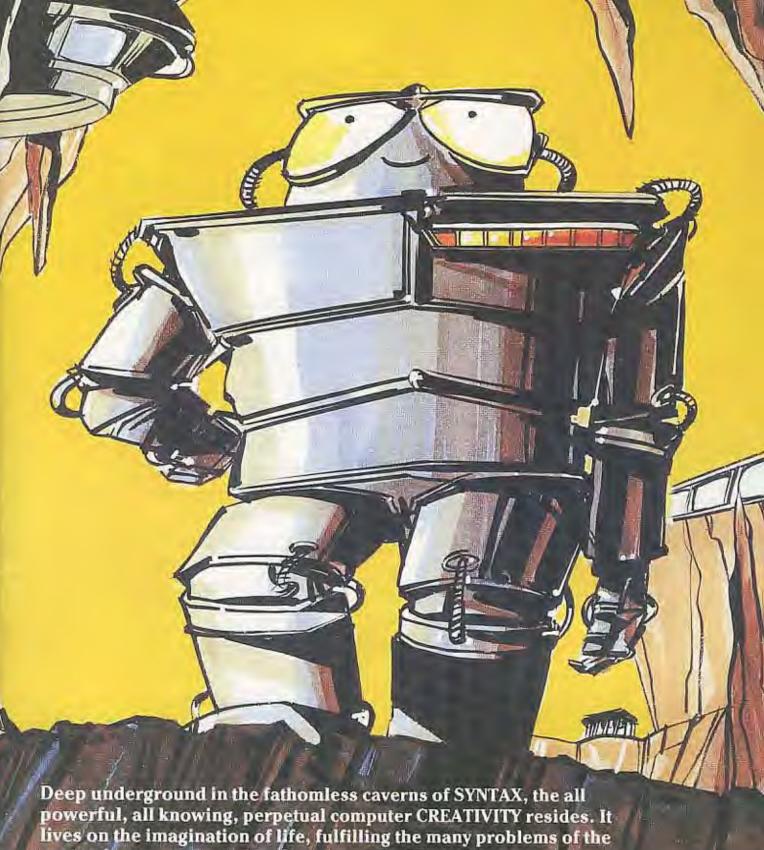


Beyond the oblivion of all numbers, far out in the galaxy and even farther, on the planet of SYNTAX, GORTEK slid wearily into his service bay.

He would have another quorum of Microchips to train when the black sky faded into the redness of the morning. The imminence of an invasion by the ZITRONS meant that time was of the essence.



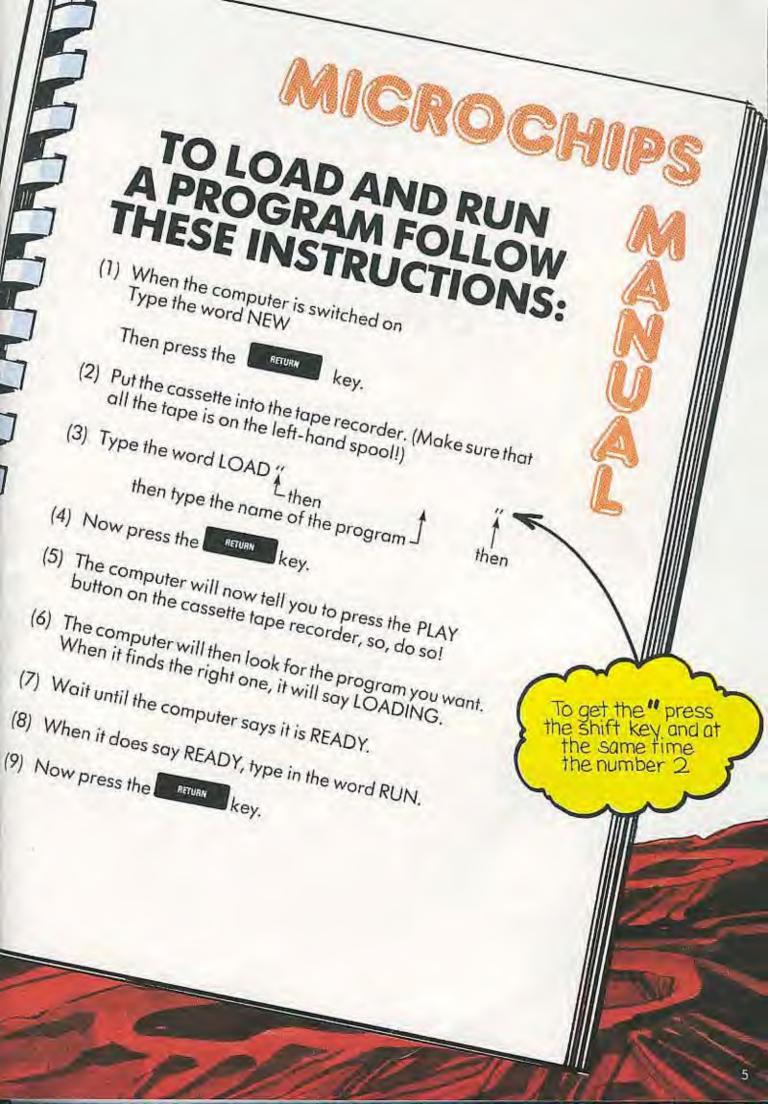




vast universe, protected by Gortek and the Microchips.

The Zitrons are a fearful race of creatures set upon the destruction of all planets but their own. They have discovered the whereabouts of Creativity and are now trying to confuse its data banks by bombarding the planet's surface with alien letters, and infiltrating space with mis-spelt words. Should they succeed then the whole system will crash, implode and the knowledge of all time will disappear, sucked into a devastating black hole.





The intensity of training can be rather wearing on the circuits of the Microchips. Creativity has allowed for recreational pursuits within the work schedule.

MICROCHIPS LEISURE TIME

It's time for you to take a break!

All the other microchips are playing flog at the Crater Club ... 50 ...

- LOAD "FLOG" into your computer now so you can enjoy the Microchip fun.
- Keep a record of your score so that when you play again you can check to see whether you have improved.

Go straight on to page 8 when you have finished playing FLOG. Now you are more familiar with the computer keyboard it is time to start your programming course.

FLOG

Here is an example of how you might record your round. You can use a post card to make a golf card like this.

Example:

CNI	H.S.
C.N.	2
3	5
6	12
10	

If the hole length is 48 metres.

Choose: C.N. 6

H.S. 5 Direction +

Then: C.N. 6 H.S. 2

Direction +

Then: C.N. 3

H.S. 2 Direction +

(Look at the card to see how this has been recorded!)

If the hole length is 44 metres.

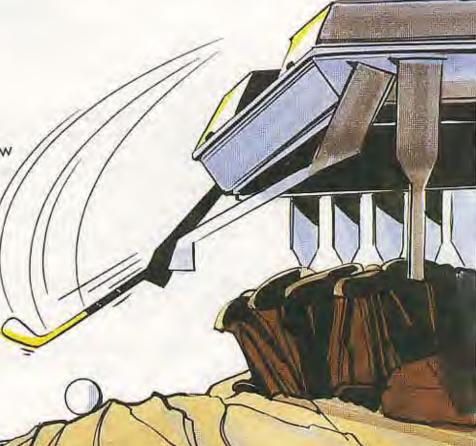
Choose: C.N. 10

Direction +

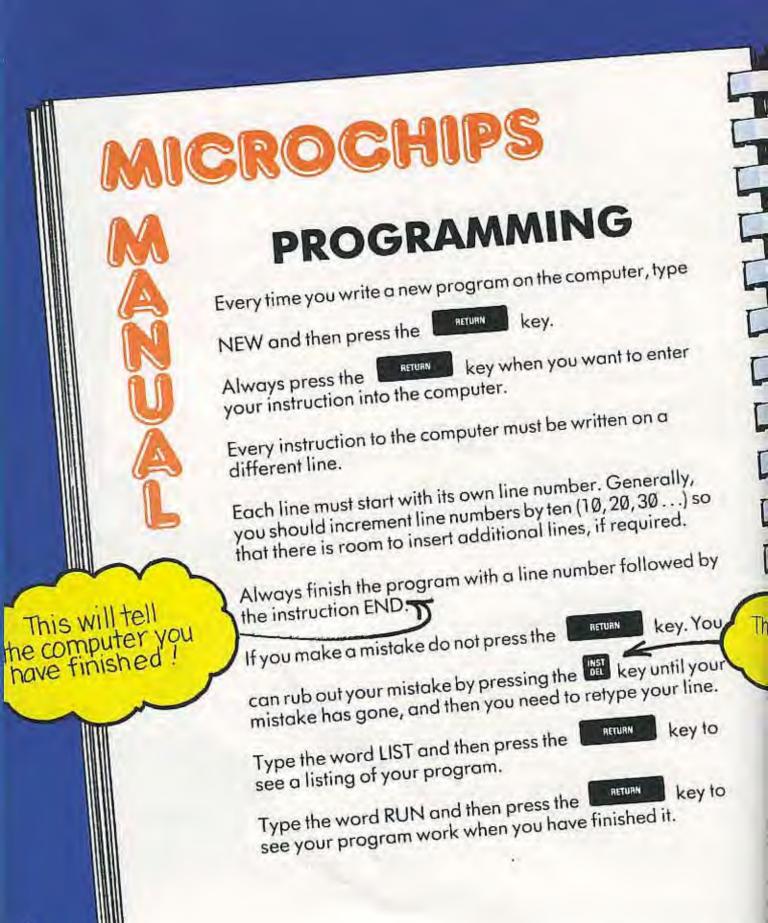
Then: C.N. 3 H.S. 2

H.S. 2 Direction

11.15	Length	Distances	Score
Hole	48m	30 12 6	3
-	44m	50 6	2
2	44111	1	
3	+-	+	
4	+	+	
5	1-	+	1
6	-	-	-
7		1	+
8	3	-	-
1	9		



The next morning the Microchips are given vital instructions in Computer Programming. To avoid devastation when the Zitrons strike they must be competent at programming Creativity. Follow the MICROCHIP MANUAL carefully then you will also be able to program and so help Gortek in his vital task.



- Switch the computer on, or type NEW.
- Type in the following program:

10 PRINT"XXX"

20 PRINT"XXX"

30 END



- Now type the word RUN
- Then press the key.

neans lete RETURN

...All programs finish with END MAL

You should now see

10 PRINT"XXX"
20 PRINT"XXX"
30 END
RUN
XXX
XXX

This is what you have asked the computer to do!

PRINT tells the computer to print something on the screen.

If you make a mistake when you are typing in your program —

Either press the key, to rub out your mistake.

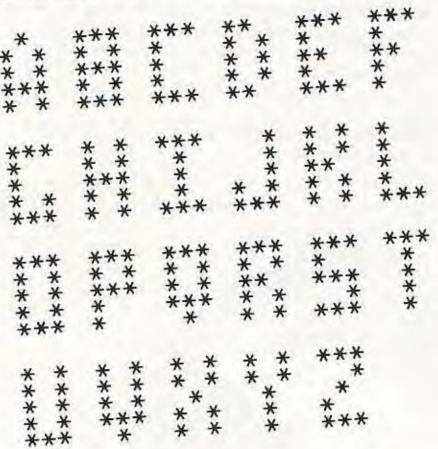
Or just retype your line again.

Look at the following PRINT statements

By using the above PRINT statements, and the

```
Here is an example program which when you RUN will produce
    the letter *** on the screen
```

Here are the examples of what you can PRINT on the screen using the print statements shown on page 10.



- Now, still using the same statements, but in a different order, write a program to print a 2 or 3 letter word going down the screen of the computer.
- If you get stuck look in the answer section of the book for an idea.
- When you have RUN your program and made sure that it works you may go on to the next page.

The Microchips have discovered a strange spherical object. They believe it may be a bomb that has been planted by the Zitrons. The sphere has a label that says

SOCCER

Many other words are on the label but they have been scrambled into disorder. Gortek must sort out the Zitron code to see if it is safe to move the sphere. Perhaps Creativity can help. Here are the words.

loget this sign hold down the SHIFT KEY and press the the kev marked

PRINT "AND ": PRINT"THE IDEA IS ": PRINT"SOCCER IS " PRINT " PRINT"WHERE ": PRINT"SILLY PEOPLE"; PRINT"KICK"; PRINT"CHASE AFTER" PRINT"A GAME"; PRINT"EACH OTHER";

PRINT"TWENTY-TWO MEN ": PRINT"RUN AROUND";

PRINT"A RIDICULOUS SPECTACLE": PRINT"THE REFEREE ":

You need to

leave two spaces

Make sure you

leave one space

between the last

letter and the "

here

PRINT"DRESSED IN SHORTS":

Do not worry if the line you type goes onto another line! Only press the RETURN When you have finished the line completely.

> PRINT"A BALL"; PRINT"A SPORT ": PRINT"KICKING" PRINT"FOULING"; PRINT"PASSING TO ": PRINT"TO SCORE GOALS": PRINT"TO PUT"; PRINT"KISSING"; PRINT"IN A NET BETWEEN TWO POSTS" END

Now type NEW and then the following program into the computer. Don't forget to press the key at the end of each line.

> 10 PRINT"SOCCER IS"; 20 PRINT"A GAME"; 30 PRINT" ."; 40 END

Now run your program to see what happens.

- Write down what you think the tells the computer to do.
- Write down what you think the ; tells the computer to do.
- Help Gortek sort out the PRINT statements —

Write your own program (using the PRINT statements given) to print a meaningful sentence about football on the screen. There is an idea for a program in the Answer Section.

Make sure you have RUN your program before you go on to the next page.



Apart from using letters and/or numbers with the PRINT statement, all the other characters on the keyboard can also be used with it.

Find the following keys:











國 國 * Type the following program into the computer. Don't forget to press the RETURN key at the end of each line! 10 PRINT" O

To get this sign press the * key! 20 PRINT" * ";

30 PRINT" ";

40 PRINT" Q ";

50 PRINT" * ";

60 END

Toget This sign press the sum and the key!

To get this sign press the key!

To get this sign press the key!

Type RUN and press the RETURN key.

READY.

It's time for target practice. LOAD "SPLAT" into your computer. (Don't forget to type NEW and press the

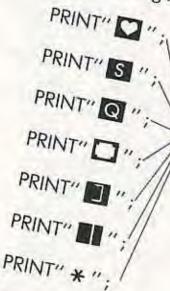
RETURN

key first.)

The Zitrons' Galacraft are preparing to land. Gortek hurries the Microchips to their next lesson. They must all be ready to repel the invasion! Creativity's counterplot must be programmed and implemented before nightfall.

MICROCHIPS

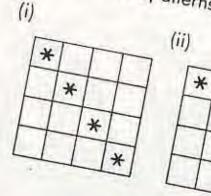
Use the following PRINT statements:

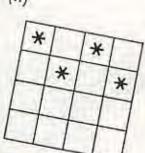


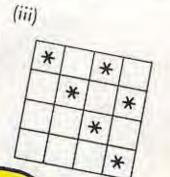
Experiment on the computer, using the keys on page 14, to each different PRINT statement.



and the END statement to write a program to produce one of these patterns on the computer screen.

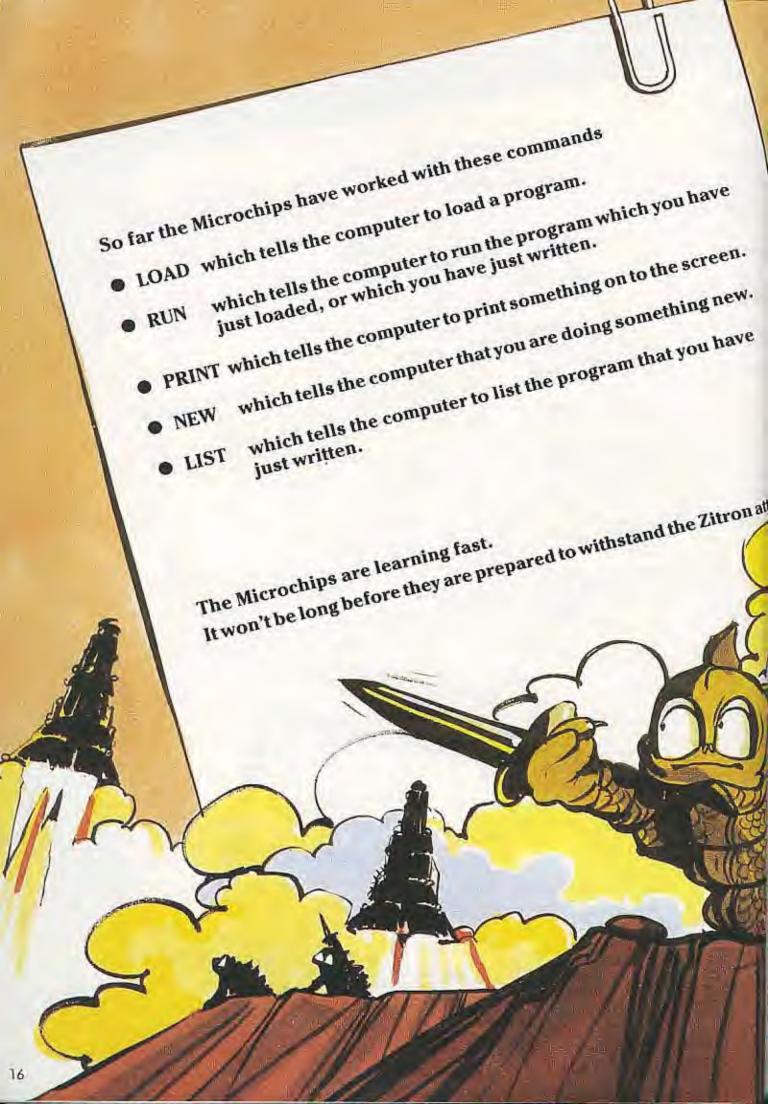






This is only a very small beginning—just to show you how to use some different keys with now and print what you want to on the screen

The answers to the patterns above are in the answer





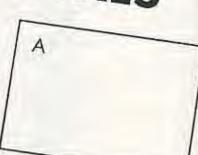
Microchip



INFORMATION ON SYNTAX IS KEPT IN BOXES

If the Microchips want to store numbers, they put them into a box labelled with a letter.

For example, the number 5003 might be stored in a box which is labelled A.



If the Microchips want to store letters, words, or sentences, they must put them into a box labelled with a letter and a \$ sign.

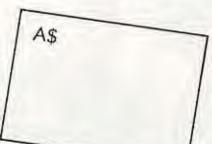
For example, the word GORTEK might be stored in a box which is labelled A\$.

To tell the computer which box something is to be stored in the Microchips use the command LET.

For example LET A = 5003

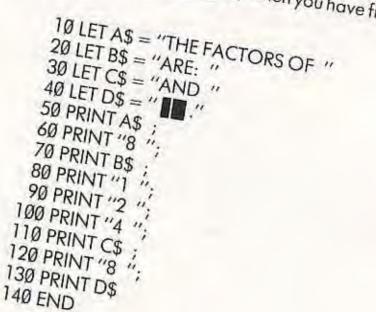
or LET A\$ = "GORTEK"

Now LOAD "BOXES"



Type the following program into the computer.

Do not worry if the statement runs on to 2 lines,
and only press the key when you have finished





- Now RUN your program.
- Now LIST your program and then, without changing lines 10, 20, 30 and 40, rewrite the other lines so that the computer prints the factors of six. (To re-write a line just you want in its place.)
- By now you should know where to find the answers if
- Run your program to see that it works.

The Microchips in the Satellite Centre have asked the trainees to help by inputting current battle data into the telemonitors. The status report of the struggle is changing every hour so when you are ready to help with this assignment.

Brochips

Type NEW then after pressing the LIST this program and you should see the following:

```
20 LET B$ = "STATUS REPORT"
30 LET C$ = "MICROCHIP LOSSES"
 40 LET D$ = "ZITRON LOSSES"
 50 LET E$ = "STARFIGHTER LOSSES"
  60 LET FS = "GALACRAFT LOSSES"
```

70 LET G\$ = " \ 80 PRINT G\$ 90 PRINT AS

100 PRINT" 110 PRINT B\$ 120 PRINT"

130 PRINT CS; 140 PRINT" 10" 150 PRINT"

160 PRINT D\$; 170 PRINT" 15 180 PRINT"

190 PRINT AS 200 END

When you LIST the program you will nee to slow the computer do You can do this by press the key marked

Now RUN the program.

You should then see the current data displayed on you screen.

MICROCH After you have RUN your program ... LIST your program and without changing all of the lines...

change the rest of your program so that it will show the following on the screen (you will need to change lines 130, 140, 160 and 170 by just retyping these lines to say what you want them to say):

STATUS REPORT

STARFIGHTER LOSSES 3

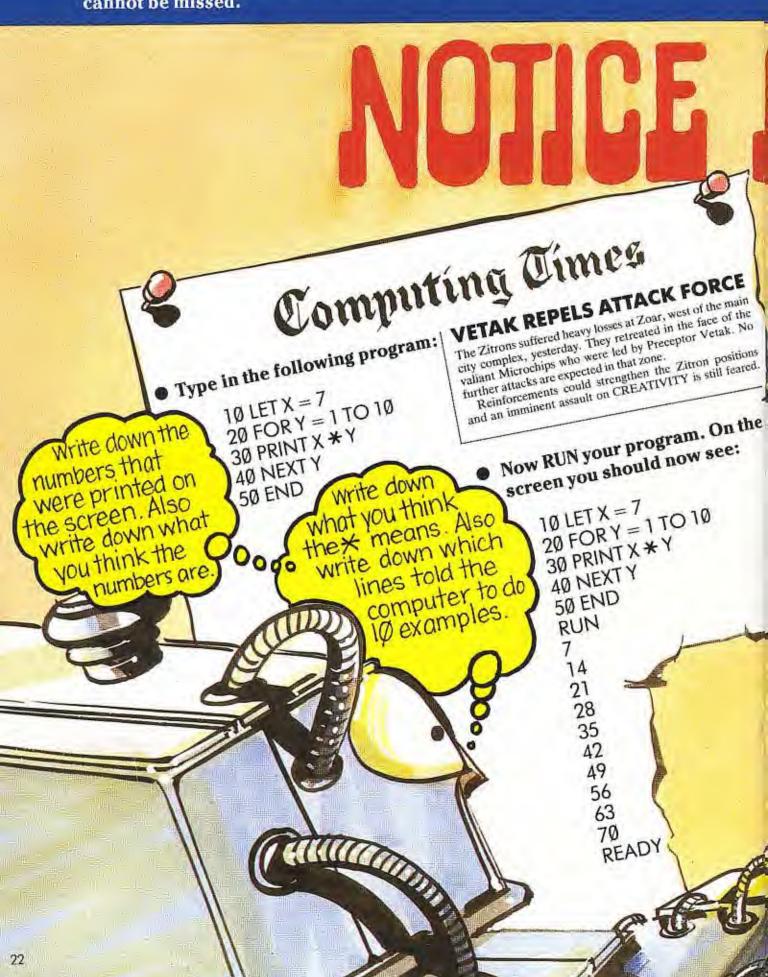
GALACRAFT LOSSES 7

 Now RUN your program to see that it works. You may also check your program with the answer in the

back of the book.

Whilst the battle rages on, Gortek and the Microchips are encouraged by their army's decreasing losses. They must work extra hard the next day on the new tactics for repelling the Zitron forces.

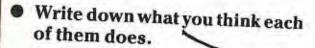
The Computing Times is the Microchips' daily newspaper. Gortek makes sure that all of them have a look so that they can keep up with the battle news. Today there is also an important program which cannot be missed.



So — keep in the picture, too; read this extract carefully and carry out all the instructions.



- Here are two more programs:
 - i) 10 LET X = 9 20 FOR Y = 1 TO 20 30 PRINT X * Y 40 NEXT Y 50 END

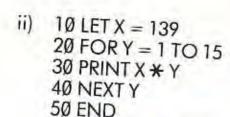


 Write a program to print the answers to the 14 times table, from 1 × 14 to 12 × 14, on the screen.

Type your program into the computer and then RUN it to see that it works.

 Write a program to print the 234 times table out fully, from 234 × 1 to 234 × 10 on the screen.

Type your program into the computer and then RUN it to see that it works.



Choose one of the programs to type in and then RUN the program to see that it works.



You will need to use this line:

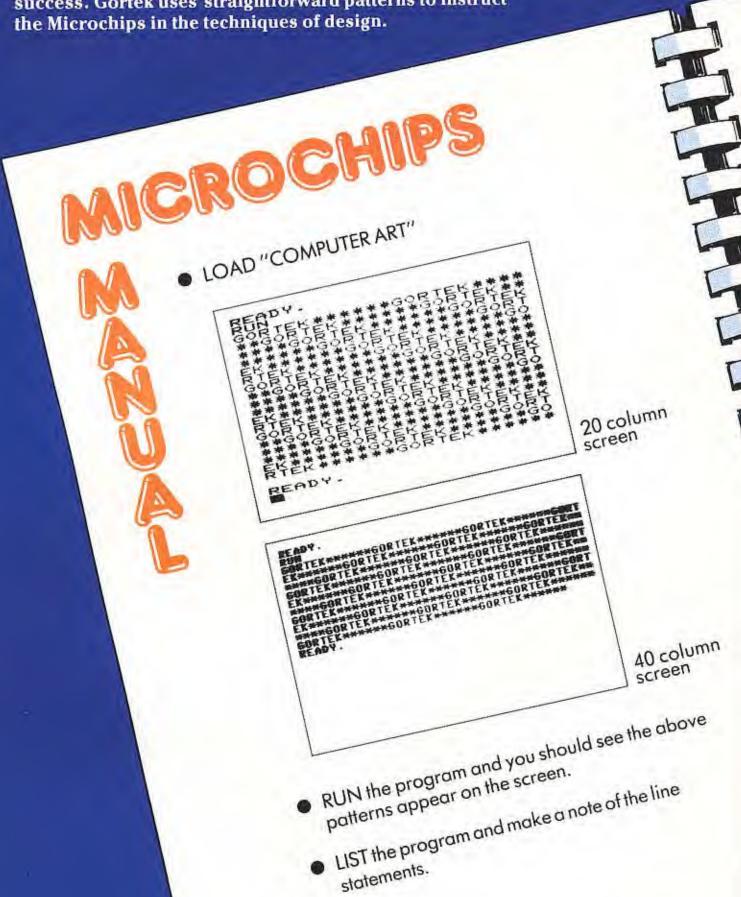
PRINT X;" \star ";Y;"=";X \star Y in place of the other line 30.

FOR SALE

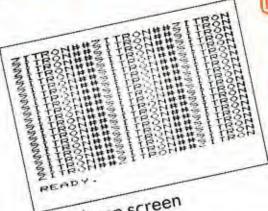
ROBOT DOG — One well trained robot dog. Needs oil change and new wiring. Answers to "ROVER". Plays chess well. Signal Astro 8400 for details.



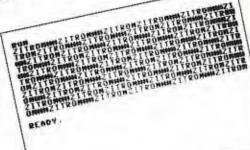
Computer art is an important feature of Syntax life and one which is not being omitted from the training schedule. The Zitrons have never been in an artistic world and Creativity is relying on surprise strategy as an intricate part of the counterplot. Imaginative ingenuity will surely enhance the Microchips' chances of success. Gortek uses straightforward patterns to instruct the Microchips in the techniques of design.



 Write a program to produce this pattern on the screen.



20 column screen



Use the following
statements to
help you! They are
all muddled up and you
will need to put them
in the right order.

40 column screen

END FORT = 1 TO 20 FORT TO 20 NEXT T PRINT "ZITRON # # ZITRON # # ZITRON";

Now, use your skill to write a program which will produce your own original computer art on the screen.

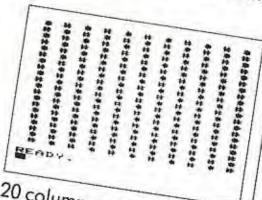
MULTIPLE PATTERNS

Type in the following program:

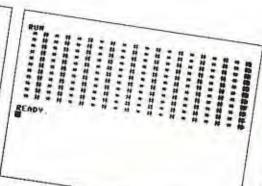
10 FORT = 1 TO 110 20 PRINT" * 30 NEXTTA Make sure you leave one space! 40 END

Now RUN your program.

You should see this on the screen:



20 column screen



40 column screen

Now write a program to print something in every 3rd space on the screen.

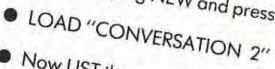
Gortek also teaches the Microchips to program the computer so that it is friendly. A smile generates a smile and hopefully if the Zitrons do reach Creativity the aura and friendliness of this amazing computer will allay immediate devastation and give the Microchips time to regroup.

MICROCHIP

LOAD "CONVERSATION 1" and then RUN it.

Then after typing NEW and pressing the





Now LIST the program and you should see this (read 10 PRINT "HELLO _ "

20 PRINT "WHAT IS YOUR NAME?" 30 INPUT AS

40 PRINT " "

50 PRINT "HELLO AGAIN"

60 PRINTAS

70 PRINT "I AM PLEASED"

80 PRINT "TO MEET YOU"

100 PRINT "HOW OLD ARE YOU?" 110 INPUT B\$

120 PRINT B\$;" THAT'S A BIT"

130 PRINT "YOUNG TO START" 140 PRINT "TO PROGRAM ME" 150 PRINT A\$;"."

Now RUN the program to see how it works.

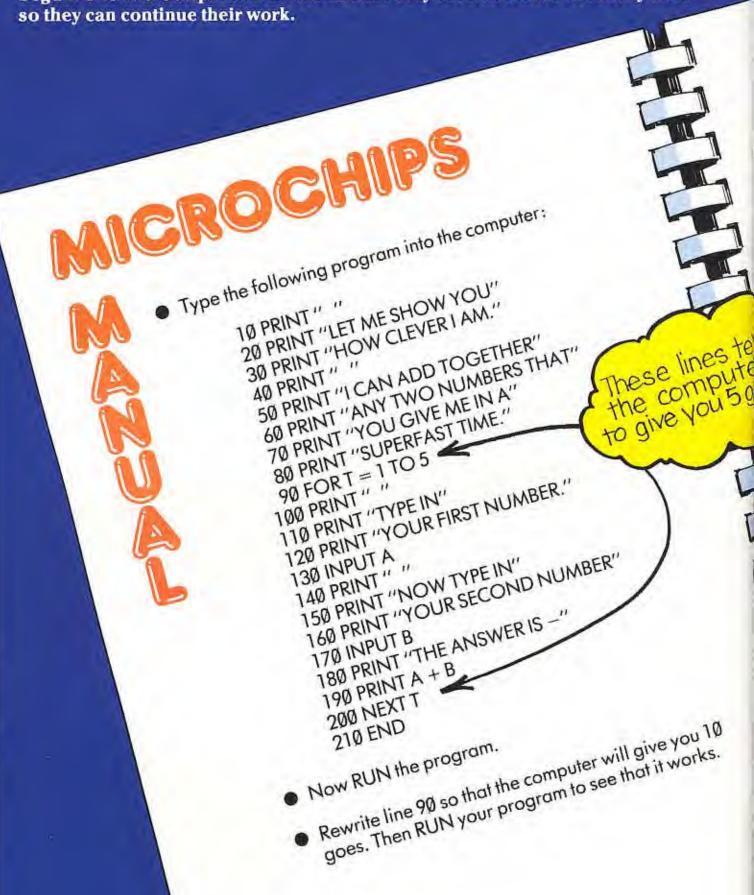
Now continue the above program so that it asks the following question and then prints a sensible reply.

"What is your favourite lesson at school?"

RUN your program to see that it works.

Make sure you leave spaces in the right places when you type in your lines.

The Microchips are having a hard fight. A Zitron scouting party has discovered the entrance to the inner sanctum of Syntax and a fierce assault on the entrance has begun. The Microchips have moved into the very caverns where Creativity lives so they can continue their work.



MICROCHIP Choose one of the following ideas: (Remember to make the computer as friendly as possible when you are writing your program!) Write a program to take away one number Write a program to multiply two numbers from another. Write a program to divide one number together. 2. into another. bes. PRACTICE USING 1+1 '-' 'X' and '+' Remember that the 'add' and 'take' signs on the computer are the same. The multiply and divide signs are not the * means multiply the / means divide

TIME FOR A
BREAK! Gortek thinks
that you have worked hard up
to this point so LOAD "PV" before going
on to the next section.



The might of the Zitron army has landed. With seemingly little regard for the purposes of Creativity they have set upon their task of ultimate destruction. A few of the Zitrons have infiltrated the inner sanctum on Syntax and are intent on eliminating the all knowing computer. On their path of evil they have been halted by a flashing computer screen. Their inquisitive nature has overcome their evil intents . . . is it possible that there might be better things in life?

The flashing cursor has mesmerised them all. Violent intent gone from their minds, they are intrigued by the program on the screen. Each Zitron is clamouring to try it out for himself.



LOAD "MICROQUIZ" and RUN the program. You will need to help the Zitrons to answer the questions to keep them from remembering their task of destruction.

Here is another program that one of the Microchips wrote to test his friends at Anagrams.

Type it into your computer:

10 PRINT "WHAT IS THIS WORD _" 20 PRINT" " 30 PRINT "SIBAC" 40 INPUT A\$ 50 IF A\$ = "BASIC" THEN 70 60 GOTO 10 70 PRINT "CORRECT" 80 END

- Now RUN the program.
- To see how lines 50, 60 and 70 work run the program and make sure you deliberately type in the wrong answer to the computer's question.

That program only tests one anagram.

Now, by writing some more lines to this program, test these three anagrams as well. You must try to keep the Zitrons occupied for as much time as possible! REKGOT

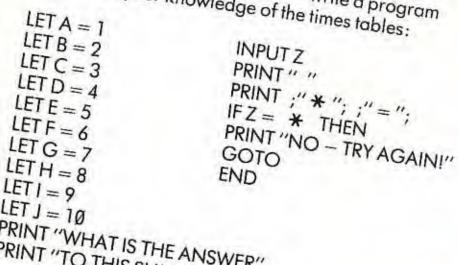
SIPCH

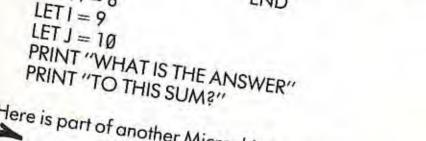
NITROZ

The Microchips are furiously writing new programs as part of the plan to keep the Zitrons occupied.

MICROCHIPS

Using the following statements — write a program which tests your knowledge of the times tables:





Here is part of another Microchip's program: 100 LET J = 10

```
110 PRINT "WHAT IS THE ANSWER"
  120 PRINT "TO THIS SUM?"
  130 PRINT ""
 140 PRINT A; "* "; B; " = ";
 150 INPUTZ
 160 IF Z = A * B THEN 190
 170 PRINT "NO - TRY AGAIN!"
18Ø GOTO 14Ø 🚤
190 PRINT "WHAT IS THE ANSWER"
200 PRINT "TO THIS SUM?"
210
```

You will need to fill in the gaps in some of the statements like they have been filled'in here!

The last two pages of the MICROCHIPS MANUAL have two exercises to test the Microchips' knowledge of programming. The more knowledge they have gained, the better are their chances of capturing the Zitrons' interest and neutralizing their attack for good.

MICROCHIPS

ODD-ONE-OUT

This is an idea for a program which can be developed further at a later stage.

Write a program which tests your ability to spot the odd-one-out! Choose your line statements from the ones listed below:

PRINT "CAR HOUSE BICYCLE" PRINT "ELEPHANT LION SNAKE" PRINT "HOE RAKE CHISEL" PRINT "FIND THE ODD ONE OUT:" PRINT " PRINT "TYPE IN YOUR ANSWER - "; INPUT AS you need to type

IF A\$ = "HOUSE" THEN IF A\$ = "SNAKE" THEN

IF A\$ = "CHISEL" THEN

GOTO PRINT "CORRECT" PRINT "TRY AGAIN!" PRINT "DO YOU WANT ANOTHER"

INPUT B\$ IF B\$ = "YES" THEN IF B\$ = "NO" THEN PRINT " "

PRINT "QUESTION?"

If you are not sure how to get started on this program look in the answer section for an idea.

Remember

in a line number after typing GOTO

OF THEN

MICROCH

AREA OF A RECTANGLE

 Write a program to give you the Area and the Perimeter of a rectangle if you type in its length and width.

Choose your line statements from the ones listed below:

IF Z\$ = "NO" THEN IF Z\$ = "YES" THEN INPUT A INPUT Z\$ INPUT B PRINTA * B PRINT "ENTER LENGTH - " PRINT "TO FIND THE AREA"

PRINT" " PRINT "AREA = "; PRINT "AREA OF A RECTANGLE"

PRINT "TYPE IN WIDTH - " PRINT "OF A RECTANGLE"

PRINT "ENTER WIDTH"

PRINT 2 * (A+B) PRINT "ANOTHER QUESTION?"

PRINT"

PRINT "TYPE IN LENGTH - "

PRINT "PERIMETER = "; PRINT "AND PERIMETER"

PRINT" = LENGTH * WIDTH"

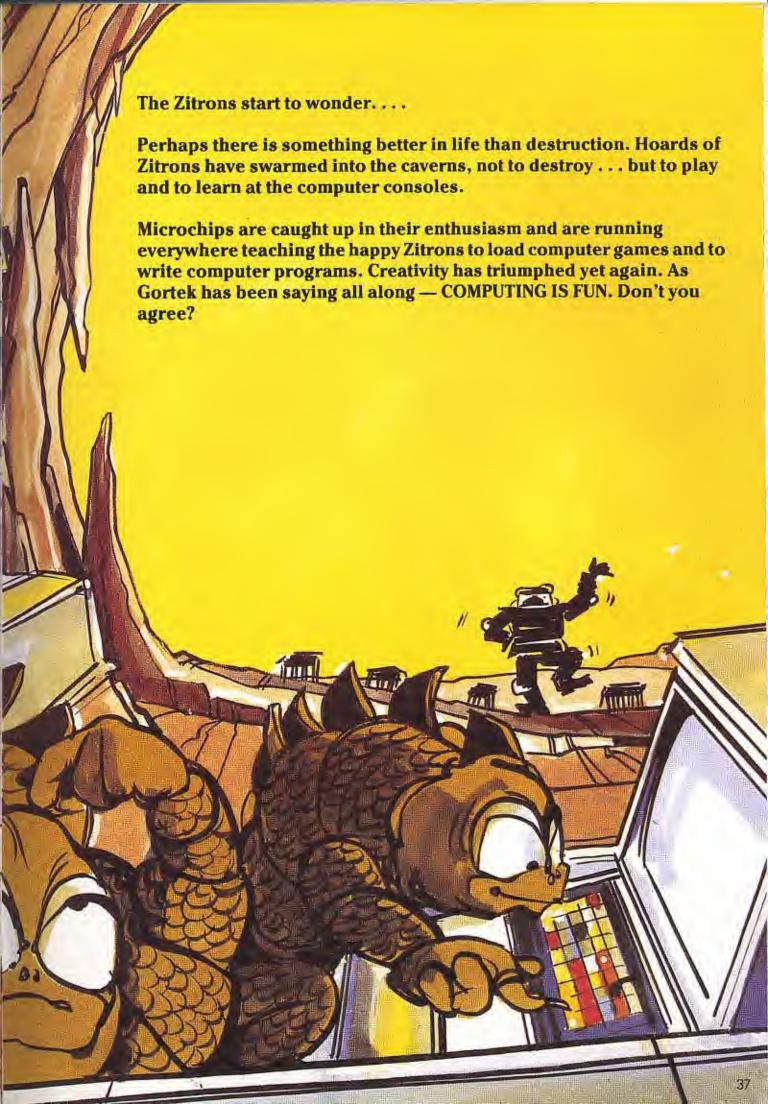
PRINT "2 * (LENGTH + WIDTH)"

GOTO

If you are not sure how to get started on this program look in the answer section for an idea!







ANSWERS

Here are the answers to the exercises in the book. The "listings" of the programs have been prepared using a printer connected to the computer. It is called a "dot matrix printer" because the letters, numbers and shapes are made up of tiny dots.

PAGE 10

```
10 PRINT "** "
20 PRINT "* *"
30 PRINT "* *"
40 PRINT "* *"
50 PRINT "** "
```

PAGE 11

```
10 PRINT "* *"
20 PRINT "* *"
30 PRINT "***
40 PRINT "* *"
50 PRINT "* *"
60 PRINT " "
70 PRINT "***
90 PRINT " * "
100 PRINT " * "
110 PRINT "****
```

PAGE 13

The tells the computer to move back one space.

The; tells the computer to wait where it is.

```
10 PRINT "SOCCER IS ";
20 PRINT "A GAME ";
30 PRINT "WHERE ";
40 PRINT "TWENTY-TWO MEN ";
45 PRINT" "
50 PRINT "RUN AROUND ";
60 PRINT "DRESSED IN SHORTS ";
70 PRINT "KICKING ";
75 PRINT" "
80 PRINT "A BALL ";
90 PRINT "N. ";
```

PAGE 15

```
i)
10 FRINT"]";
20 PRINT"#";
30 PRINT"N";~
                    This tells the
40 PRINT"*";
                   computer to move
50 PRINT"W";
                    down one space
60 PRINT"*";
70 PRINT"M";
80 PRINT" *";
90 END
ii)
10 PRINT"";
28 PRINT"#";
30 PRINT"0";
                           This tells the
40 PRINT"*";
                         computer to move
50 PRINT"]";
                           up one space!
60 PRINT"*";
70 PRINT"2";
SØ PRINT"*";
90 END
(iii
10 PRINT"";
20 PRINT"*";
30 PRINT"0";
40 PRINT"*";
                         Because there
50 PRINT"";
                        are two III this tells
60 PRINT" *":
                         the computer to
70 PRINT"N";
                        move two spaces!
80 PRINT"*";
90 PRINT"39";
                         with the sun
100 PRINT" | | ;
110 PRINT" *";
120 PRINT"2";
130 PRINT"*";
140 END
```

PAGE 19

Only type in the following line changes to the program:

```
60 PRINT"6 ";
100 PRINT"3 ";
120 PRINT"6 ";
```

PAGE 21

Only type in the following line changes to this program:

130 PRINT E\$; 140 PRINT" 3" 160 PRINT F\$; 170 PRINT" 7"

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The numbers are the 7 times table.
The ** means 'times'.
Line 20 FOR Y = 1 TO 10
and Line 40 NEXT Y
told the computer to do 10 examples.

PAGE 23

- i) This program told the computer to write down the answers to the 9 times table, from 9 x 1 to 9 x 20.
- ii) This program told the computer to write down the answers to the 139 times table, from 139 x 1 to 139 x 15.

10 LET X = 14
20 FOR Y = 1 TO 12
30 PRINT X * Y
40 NEXT Y
50 END

10 LET X = 234
20 FOR Y = 1 TO 10
30 PRINT X;"*";Y;"=";X*Y
40 NEXT Y
50 END

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10 FOR T = 1 TO 33 20 PRINT "GORTEK*****; 30 NEXT T 40 END

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The right order of the program is:

10 FOR T = 1 TO 20 20 PRINT"ZITRON##ZITRON##ZITRON"; 30 NEXT T 40 END

PAGE 26

160 PRINT" "
170 PRINT"WHAT IS YOUR"
180 PRINT"FAVOURITE LESSON"
190 PRINT "AT SCHOOL ?"
200 INPUT C#
210 PRINT"THAT'S GOOD—"
220 PRINT"I LIKE "; C#
230 PRINT"BEST AS WELL."
240 END

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10 FOR T = 1 TO 150 20 PRINT " *"; 30 NEXT T 40 END

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90 FOR T = 1 TO 10

PAGE 29

A program to multiply two numbers together.

10 PRINT" " 20 PRINT"IF YOU WANT TO SEE" 30 PRINT"HOW CLEVER I AM -" 40 PRINT"GIVE ME ANY TWO" 50 PRINT"NUMBERS AND I WILL" 60 PRINT"MULTIPLY THEM" 70 PRINT"TOGETHER AS FAST " 80 PRINT"AS YOU CAN BLINK!" 90 FOR L = 1 TO 20 100 PRINT" " 110 PRINT"TYPE IN" 120 PRINT"YOUR FIRST NUMBER." 130 INPUT A 140 PRINT"NOW THE SECOND -- " 150 INPUT B 160 PRINT"THAT'S EASY -" 170 PRINT"THE ANSWER IS ..." 189 PRINT A*B 190 NEXT L 200 END

This program gives you 20 goes.

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80 PRINT"WHAT IS THIS WORD -" 90 PRINT" " 100 PRINT"REKGOT" 110 INPUT B≇ 120 IF B\$ = "GORTEK" THEN 140 130 GOTO 80 140 PRINT"CORRECT" 150 PRINT "WHAT IS THIS WORD -" 160 PRINT" " 170 PRINT"SIPCH" 180 INPUT C# 190 IF C# = "CHIPS"THEN 210 200 GOTO 150 210 PRINT"CORRECT" 220 PRINT "WHAT IS THIS WORD -" 230 PRINT " " 240 PRINT"NITROZ" 250 INPUT D\$ 260 IF D\$ = "ZITRON" THEN 280 -270 GOTO 220 280 PRINT "CORRECT" 290 PRINT"THANKS FOR THE GAME!" 300 END

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10 PRINT"FIND THE ODD ONE OUT -" 20 PRINT "CAR HOUSE BICYCLE" 30 PRINT " " 40 PRINT"TYPE IN YOUR ANSWER -" 50 INPUT C\$ 60 IFC\$="HOUSE" THEN 90 70 PRINT "TRY AGAIN!" 80 GOTO 10 90 PRINT"CORRECT" 100 PRINT"DO YOU WANT ANOTHER" 110 PRINT "QUESTION?" 120 INPUT B\$ 130 IF B\$ = "NO" THEN 360 140 PRINT "FIND THE ODD ONE OUT -" 150 PRINT"HOE RAKE CHISEL" 160 PRINT" " 170 PRINT"TYPE IN YOUR ANSWER -" 180 INPUT A\$ 190 360 END

PAGE 35

18 PRINT"3" 20 PRINT"TO FIND THE AREA" 30 PRINT"AND PERIMETER" 40 PRINT"OF A RECTANGLE" 50 PRINT" " 60 PRINT"TYPE IN LENGTH - " 70 INPUT A 80 PRINT"TYPE IN WIDTH - " 90 INPUT B 95 PRINT" " 100 PRINT"AREA OF A RECTANGLE" 110 PRINT" = LENGH * WIDTH" 120 PRINT"AREA = "; 130 PRINTA * B 141 PRINT"AND PERIMETER"
142 PRINT" 2 * (LENGTH + WIDTH)" 143 PRINT"PERIMETER ="; 144 PRINT 2 * (R+B) 145 PRINT" " 150 PRINT"ANOTHER QUESTION?" 160 INPUT Z\$ 170 IF Z\$ = "YES" THEN 20 180 IF Z\$ = "NO" THEN 200 190 GOTO 150 200 END

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This delightful and unique concept in teaching young people to program couples a space adventure story with lessons in BASIC

programming.

The planet of Syntax is being invaded by fearsome Zitrons! Gortek is working furiously to teach the Microchips to program the great computer to ward off the attack. The full colour story book of this adventure incorporates the Microchips Training Manual that will teach your child the fundamentals of programming in BASIC.

They too, can help stop the Zitrons.

The book which includes eleven imaginative illustrations in vivid colours, is accompanied by two cassettes containing educational games and other programs. In addition to using the programs provided, throughout the training manual there are programs to be typed into the computer by the "trainee". At the end of the story the great computer "Creativity" is saved by the programming that your child and the Microchips have learned from Gortek. Successful trainees earn the right to wear the Gortek badge which comes in the package.

The innovative approach to computer education and the space adventure story with which it is interwoven is the creation of three English school teachers. They designed the package for 10 to 13 year-olds although it is suitable for younger children with parental assistance. Older children and even adults will find it informative and fun as well. This is the first in a series that is marketed exclusively by Commodore, worldwide.

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